Index of Authors

ABEYASEKERA Savitri *see* DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

ABEYGUNAWARDENE H. *see* CHEN X.B., SAMARAWEERA L., KYLE D.J., ØRSKOV E.R. & ABEYGUNAWARDENE H. Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. 397

ADACHI Takashi *see* OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: development of an experimental infection model. 867

ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: diet compositions that improve fat digestion during *Eimeria acervulina* infection. 875

ADAMSON Ashley *see* MOYNIHAN Paula, ADAMSON Ashley, RUGG-GUNN Andrew, APPLETON David & BUTLER Timothy Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. 495

AGGETT Peter J. *see* DAVIDSSON Lena, MACKENZIE Jill, KASTENMAYER Peter, AGGETT Peter J. & HURRELL Richard F. Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. 291

ÅGREN Göan *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

ALLSOP Karen A. & BRAND MILLER Janette Honey revisited: a reappraisal of honey in pre-industrial diets. 513

ALMGREN Annette *see* DAVIDSSON Lena, ALMGREN Annette, SANDSTRÖM Brittmarie, JUILLERAT Marcel-A. & HURRELL Richard F. Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. 607

ANDERSEN O. *see* BAGGER M., ANDERSEN O., NIELSEN J.B. & RYTTIG K.R. Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. 483

ANDRIEUX C. *see* FONTAINE N., MESLIN J.C., LORY S. & ANDRIEUX C. Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. 881

APPLETON David *see* MOYNIHAN Paula, ADAMSON Ashley, RUGG-GUNN Andrew, APPLETON David & BUTLER Timothy Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. 495

BABA Seigo *see* OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

BACH KNUDSEN K.E. *see* JOHANSEN Helle N., BACH KNUDSEN K.E., SANDSTRÖM Brittmarie & SKJØTH F. Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. 339

BACH KNUDSEN Knud Erik *see* JØRGENSEN Henry, ZHAO Xin-Quan, BACH KNUDSEN Knud Erik & EGGUM Bjørn O. The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. 379

BAGGER M., ANDERSEN O., NIELSEN J.B. & RYTTIG K.R. Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. 483

BALCELLS J. *see* PEREZ J.F., BALCELLS J., GUADA J.A. & CASTRILLO C. Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. 699

BARRY Jean-Luc *see* MICHEL Catherine, LAHAYE Marc, BONNET Christian, MABEAU Serge & BARRY Jean-Luc *In vitro* fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. 263

BARRY T.N. *see* YU Feng, MOUGHAN P.J. & BARRY T.N. The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. 683

BASU Tapan K. *see* TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

BAUMANN Mathius *see* HENGGE Ulrich R., BAUMANN Mathius, MALEßA Rolf, BROCKMEYER Norbert H. & GOOS Manfred Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. 129

BAUMEISTER Brigitte *see* BERGSMA-KADIJK Janneke A., BAUMEISTER Brigitte & DEURENBERG Paul Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. 649

BEATTY Emily R. *see* CUMMINGS John H., BEATTY Emily R., KINGMAN Susan M., BINGHAM Sheila A. & ENGLYST Hans N. Digestion and physiological properties of resistant starch in the human large bowel. 733

BELLIER R. & GIDENNE T. Consequences of reduced fibre intake on digestion, rate of passage and caecal microbial activity in the young rabbit. 353

BELTON N.R. *see* RUXTON C.H.S., KIRK T.R. & BELTON N.R. Energy and nutrient intakes in a sample of 136 Edinburgh 7–8 year olds: a comparison with United Kingdom dietary reference values. 151

BELTON N.R. *see* RUXTON C.H.S., O'SULLIVAN K.R., KIRK T.R. & BELTON N.R. The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. 419

BEQUETTE B.J. *see* LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

BERGSMA-KADIJK Janneke A., BAUMEISTER Brigitte & DEURENBERG Paul Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. 649

BERNARD A. *see* MATHIEU Y., CASELLI C., BERNARD A. & CARLIER H. Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. 249

BEYNEN A.C. *see* WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

BEYNEN Anton C. *see* ROODENBURG Annet J.C., WEST Clive E., HOVENIER Robert & BEYNEN Anton C. Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. 623

BINGHAM Sheila A. *see* SCOTT K. John, THURNHAM David I., HART David J., BINGHAM Sheila A. & DAY Ken The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. 409

BINGHAM Sheila A. *see* CUMMINGS John H., BEATTY Emily R., KINGMAN Susan M., BINGHAM Sheila A. & ENGLYST Hans N. Digestion and physiological properties of resistant starch in the human large bowel. 733

BLUNDELL John E. *see* COTTON Jacqui R., BURLEY Victoria J., WESTSTRATE Jan A. & BLUNDELL John E. Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. 545

BONNET Christian *see* MICHEL Catherine, LAHAYE Marc, BONNET Christian, MABEAU Serge & BARRY Jean-Luc *In vitro* fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. 263

BORNET Francis *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

BOULEY C. *see* VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

BRAND MILLER Janette *see* ALLSOP Karen A. & BRAND MILLER Janette Honey revisited: a reappraisal of honey in pre-industrial diets. 513

BRINK E.J. *see* WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

BRINK Elizabeth J., HADDEMAN Edward & TIJBURG Lilian B.M. Vitamin E incorporated into a very-low-fat meal is absorbed from the intestine of young rats. 939

BROCKMEYER Norbert H. *see* HENGGE Ulrich R., BAUMANN Mathius, MALEßA Rolf, BROCKMEYER Norbert H. & GOOS Manfred Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. 129

BRONSTEIN Michele N., MAK Rosa P. & KING Janet C. Unexpected relationship between fat mass and basal metabolic rate in pregnant women. 659

BROWN D.S. *see* LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

BRUZZO Françoise *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

BRYDEN W.L. *see* WANG Yao H., LEIBHOLZ J., BRYDEN W.L. & FRASER D.R. Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. 81

BURLEY Victoria J. *see* COTTON Jacqui R., BURLEY Victoria J., WESTSTRATE Jan A. & BLUNDELL John E. Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. 545

BUTLER Timothy *see* MOYNIHAN Paula, ADAMSON Ashley, RUGG-GUNN Andrew, APPLETON David & BUTLER Timothy Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. 495

CALDER A.G. *see* LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

CALMES R. *see* RÉRAT A., CALMES R., CORRING T. & VAISSADE P. Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. 175

CARLIER H. *see* MATHIEU Y., CASELLI C., BERNARD A. & CARLIER H. Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. 249

CASELLI C. *see* MATHIEU Y., CASELLI C., BERNARD A. & CARLIER H. Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. 249

CASTRILLO C. *see* PEREZ J.F., BALCELLS J., GUADA J.A. & CASTRILLO C. Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. 699

CATALA Isabelle *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

CENA Hellas *see* TAGLIABUE Anna, CENA Hellas & DEURENBERG Paul Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. 11

CHAGNEAU A.M. *see* TESSERAUD S., PERESSON R., LOPES J. & CHAGNEAU A.M. Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. 853

CHAMP Martine *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

CHANUSSOT Françoise *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normo-lipidaemic rats by stimulation of biliary lipid secretion. 471

CHEN X.B., SAMARAWEERA L., KYLE D.J., ØRSKOV E.R. & ABEYGUNAWARDENE H. Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. 397

CHEN Zhen-Yu, MENARD Chantale R. & CUNNANE Stephen C. Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. 583

CHIANG Bor-Luen *see* LIN Bi-Fong, HUANG Chao-Chi, CHIANG Bor-Luen & JENG Su-Jen Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. 711

CHIRTEL Stuart J. *see* SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT

Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

CONNELL A. *see* LOBLEY G.E., CONNELL A. & REVELL D. The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. 47

CONNELL A. *see* LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

CORRING T. *see* RÉRAT A., CALMES R., CORRING T. & VAISSADE P. Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. 175

CORRING Tristan *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

COTTON Jacqui R., BURLEY Victoria J., WESTSTRATE Jan A. & BLUNDELL John E. Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. 545

COWARD W.A. *see* FULLER N.J., SAWYER M.B., COWARD W.A., PAXTON P. & ELIA M. Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. 161

CUMMINGS John H., BEATTY Emily R., KINGMAN Susan M., BINGHAM Sheila A. & ENGLYST Hans N. Digestion and physiological properties of resistant starch in the human large bowel. 733

CUMMINGS John H. *see* ENGLYST Hans N., KINGMAN Susan M., HUDSON Geoffrey J. & CUMMINGS John H. Measurement of resistant starch *in vitro* and *in vivo*. 749

CUNNANE Stephen C. *see* CHEN Zhen-Yu, MENARD Chantale R. & CUNNANE Stephen C. Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. 583

DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

DAVIDSSON Lena, MACKENZIE Jill, KASTENMAYER Peter, AGGETT Peter J. & HURRELL Richard F. Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. 291

DAVIDSSON Lena, ALMGREN Annette, SANDSTRÖM Brittmarie, JUILLERAT Marcel-A. & HURRELL Richard F. Zinc absorption in adult humans: the effect of protein sources added to liquid test meals 607

DAY Ken *see* SCOTT K. John, THURNHAM David I., HART David J., BINGHAM Sheila A. & DAY Ken The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. 409

DE LA GUÉRONNIÈRE V. *see* VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

DEMIGNÉ Christian *see* YOUNES Hassan, DEMIGNÉ Christian & RÉMÉSY Christian Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. 301

DENBOW D.M. *see* KORNEGAY E. T., DENBOW D.M., YI Z. & RAVINDRAN V. Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. 839

DEURENBERG Paul *see* TAGLIABUE Anna, CENA Hellas & DEURENBERG Paul Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. 11

DEURENBERG Paul *see* BERGSMA-KADIJK Janneke A., BAUMEISTER Brigitte & DEURENBERG Paul Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. 649

DIACONESCU Nicolas *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normo-lipidaemic rats by stimulation of biliary lipid secretion. 471

DRITTIJ-REIJNDERS M.J. *see* THIJSSEN H.H.W. & DRITTIJ-REIJNDERS M.J. Vitamin K status in human tissues: tissue-specific accumulation of phylloquinone and menaquinone-4. 121

EGGUM Bjørn O. *see* JØRGENSEN Henry, ZHAO Xin-Quan & EGGUM Bjørn O. The influence of dietary fibre

and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. 365

EGGUM Bjørn O. *see* JØRGENSEN Henry, ZHAO Xin-Quan, BACH KNUDSEN Knud Erik & EGGUM Bjørn O. The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. 379

EGGUM B.O. *see* TETENS Inge, LIVESEY G. & EGGUM B.O. Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. 461

ELIA M. *see* FULLER N.J., SAWYER M.B., COWARD W.A., PAXTON P. & ELIA M. Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. 161

ELIA Marinos *see* JEBB Susan A., GARLAND Stephen W., JENNINGS Graham & ELIA Marinos Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. 803

ENGLYST Hans N., VEENSTRA Jan & HUDSON Geoffrey J. Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. 327

ENGLYST Hans N. *see* CUMMINGS John H., BEATTY Emily R., KINGMAN Susan M., BINGHAM Sheila A. & ENGLYST Hans N. Digestion and physiological properties of resistant starch in the human large bowel. 733

ENGLYST Hans N., KINGMAN Susan M., HUDSON Geoffrey J. & CUMMINGS John H. Measurement of resistant starch *in vitro* and *in vivo*. 749

FERRO-LUZZI Anna & JAMES W.P.T. Adult malnutrition: simple assessment techniques for use in emergencies. 3

FISZLEWICZ Michèle *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

FOGELHOLM G. Mikael, KUKKONEN-HARJULA T. Katriina, SIEVÄNEN Harri T., OJA Pekka & VUORI Ilkka M. Body composition assessment in lean and normal-weight young women. 793

FONTAINE N., MESLIN J.C., LORY S. & ANDRIEUX C. Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. 881

FRASER D.R. *see* WANG Yao H., LEIBHOLZ J., BRYDEN W.L. & FRASER D.R. Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. 81

FRAYN Keith N. A time of change at the *British Journal of Nutrition*. 1

FROMENTIN Gilles & NICOLAIDIS Stylianos Rebalancing essential amino acids intake by self-selection in the rat. 669

FULLER Malcolm F. *see* MNILK Beatrix, HARRIS C. Ian & FULLER Malcolm F. Lysine utilization by growing pigs: simultaneous measurement of protein accretion and lysine oxidation. 57

FULLER N.J., SAWYER M.B., COWARD W.A., PAXTON P. & ELIA M. Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. 161

GANGULY N.K. *see* CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

GARLAND Stephen W. *see* JEBB Susan A., GARLAND Stephen W., JENNINGS Graham & ELIA Marinos Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. 803

GEE J.M., LEE-FINGLAS W. & JOHNSON I.T. Fermentable carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. 757

GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. 195

GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. 205

GHUSAIN-CHOUEIRI Amal *see* HENRY Christiani Jeyakumar, GHUSAIN-CHOUEIRI Amal & PAYNE Philip R. Protein utilization, growth and survival in essential-fatty-acid-deficient rats. 237

GIDENNE T. *see* BELLIER R. & GIDENNE T. Consequences of reduced fibre intake on digestion, rate of passage and caecal microbial activity in the young rabbit. 353

GOLDBERG G.R. *see* MURGATROYD P.R., VAN DE VEN M.L.H.M., GOLDBERG G.R. & PRENTICE A.M. Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. 33

GOOS Manfred *see* HENGGE Ulrich R., BAUMANN Mathius, MALEßA Rolf, BROCKMEYER Norbert H. & GOOS Manfred Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. 129

GUADA J.A. *see* PEREZ J.F., BALCELLS J., GUADA J.A. & CASTRILLO C. Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. 699

GUEUGNEAU A.M. *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

GUEUX Elyett *see* MOTTA Claude, GUEUX Elyett, MAZUR Andrzej & RAYSSIGUIER Yves Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. 767

GUILLAUMIN S. *see* GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. 195

GUILLAUMIN S. *see* GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. 205

HA C.-L., PAULINO-RACINE L.E. & WOODWARD B.D. Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. 445

HACKETT Allan F. *see* NATHAN Indira, HACKETT Allan F. & KIRBY Simon The dietary intake of a group of vegetarian children aged 7–11 years compared with matched omnivores. 533

HADDEMAN Edward *see* BRINK Elizabeth J., HADDEMAN Edward & TIJBURG Lilian B.M. Vitamin E incorporated into a very-low-fat meal is absorbed from the intestine of young rats. 939

HALLMANS Göran *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

HANNIGAN Bernadette M. *see* TONG K.K., HANNIGAN Bernadette M., MCKERR George & STRAIN John J. The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. 97

HANSEN Gitte Laub *see* HEITMANN Berit Lilienthal, MILMAN Nils & HANSEN Gitte Laub Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. 905

HARA Hiroshi *see* OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

HARRIS C. Ian *see* MNILK Beatrix, HARRIS C. Ian & FULLER Malcolm F. Lysine utilization by growing pigs: simultaneous measurement of protein accretion and lysine oxidation. 57

HART David J. *see* SCOTT K. John, THURNHAM David I., HART David J., BINGHAM Sheila A. & DAY Ken The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. 409

HART S.P. *see* PUCHALA R., PIERZYNOWSKI S.G., SAHLU T. & HART S.P. Effects of mimosine administered to a perfused area of skin in Angora goats. 69

HEITMANN Berit Lilienthal, MILMAN Nils & HANSEN Gitte Laub Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. 905

HENGGE Ulrich R., BAUMANN Mathius, MALEßA Rolf, BROCKMEYER Norbert H. & GOOS Manfred Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. 129

HENRY Christiani Jeyakumar, GHUSAIN-CHOUEIRI Amal & PAYNE Philip R. Protein utilization, growth and survival in essential-fatty-acid-deficient rats. 237

HIGASHI Yusuke, TAKENAKA Asako, TAKAHASHI Shin-Ichiro & NOGUCHI Tadashi Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. 811

HIGHT Susan C. *see* SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

HOVENIER Robert *see* ROODENBURG Annet J.C., WEST Clive E., HOVENIER Robert & BEYNEN Anton C. Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. 623

HUANG Chao-Chi *see* LIN Bi-Fong, HUANG Chao-Chi, CHIANG Bor-Luen & JENG Su-Jen Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. 711

HUDSON Geoffrey J. *see* ENGLYST Hans N., VEENSTRA Jan & HUDSON Geoffrey J. Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. 327

HUDSON Geoffrey J. *see* ENGLYST Hans N., KINGMAN Susan M., HUDSON Geoffrey J. & CUMMINGS John H. Measurement of resistant starch *in vitro* and *in vivo*. 749

HURRELL Richard F. *see* DAVIDSSON Lena, MACKENZIE Jill, KASTENMAYER Peter, AGGETT Peter J. & HURRELL Richard F. Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. 291

HURRELL Richard F. *see* DAVIDSSON Lena, ALMGREN Annette, SANDSTRÖM Brittmarie, JUILLERAT Marcel-A. & HURRELL Richard F. Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. 607

JACOBSEN Donald W. *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

JAMES W.P.T. *see* FERRO-LUZZI Anna & JAMES W.P.T. Adult malnutrition: simple assessment techniques for use in emergencies. 3

JEBB Susan A., GARLAND Stephen W., JENNINGS Graham & ELIA Marinos Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. 803

JENG Su-Jen *see* LIN Bi-Fong, HUANG Chao-Chi, CHIANG Bor-Luen & JENG Su-Jen Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. 711

JENNINGS Graham *see* JEBB Susan A., GARLAND Stephen W., JENNINGS Graham & ELIA Marinos Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. 803

JOHANSEN Helle N., BACH KNUDSEN K.E., SANDSTRÖM Brittmarie & SKJØTH F. Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. 339

JOHNSON I.T. *see* GEE J.M., LEE-FINGLAS W. & JOHNSON I.T. Fermentable carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. 757

JONXIS Jan H.P. *see* VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

JØRGENSEN Henry, ZHAO Xin-Quan & EGGUM Bjørn O. The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. 365

JØRGENSEN Henry, ZHAO Xin-Quan, BACH KNUDSEN Knud Erik & EGGUM Bjørn O. The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. 379

JUILLERAT Marcel-A. *see* DAVIDSSON Lena, ALMGREN Annette, SANDSTRÖM Brittmarie, JUILLERAT Marcel-A. & HURRELL Richard F. Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. 607

KABIR Morvarid *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

KASTENMAYER Peter *see* DAVIDSSON Lena, MACKENZIE Jill, KASTENMAYER Peter, AGGETT Peter J. & HURRELL Richard F. Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. 291

KAUP Susan M. *see* SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

KING Janet C. *see* BRONSTEIN Michele N., MAK Rosa P. & KING Janet C. Unexpected relationship between fat mass and basal metabolic rate in pregnant women. 659

KINGMAN Susan M. *see* CUMMINGS John H., BEATTY Emily R., KINGMAN Susan M., BINGHAM Sheila A. & ENGLYST Hans N. Digestion and physiological properties of resistant starch in the human large bowel. 733

KINGMAN Susan M. *see* ENGLYST Hans N., KINGMAN Susan M., HUDSON Geoffrey J. & CUMMINGS John H. Measurement of resistant starch *in vitro* and *in vivo*. 749

KIRBY Simon *see* NATHAN Indira, HACKETT Allan F. & KIRBY Simon The dietary intake of a group of vegetarian children aged 7–11 years compared with matched omnivores. 533

KIRK T.R. *see* RUXTON C.H.S., KIRK T.R. & BELTON N.R. Energy and nutrient intakes in a sample of 136 Edinburgh 7–8 year olds: a comparison with United Kingdom dietary reference values. 151

KIRK T.R. *see* RUXTON C.H.S., O'SULLIVAN K.R., KIRK T.R. & BELTON N.R. The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. 419

KORNEGAY E. T., DENBOW D.M., YI Z. & RAVINDRAN V. Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. 839

KUKKONEN-HARJULA T. Katriina *see* FOGELHOLM G. Mikael, KUKKONEN-HARJULA T. Katriina, SIEVÄNEN Harri T., OJA Pekka & VUORI Ilkka M. Body composition assessment in lean and normal-weight young women. 793

KUMAR Lata *see* CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

KUMAR Rajesh *see* CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

KYLE D.J. *see* CHEN X.B., SAMARAWEERA L., KYLE D.J., ØRSKOV E.R. & ABEYGUNAWARDENE H. Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. 397

LAFONT Huguette *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

LAHAYE Marc *see* MICHEL Catherine, LAHAYE Marc, BONNET Christian, MABEAU Serge & BARRY Jean-Luc *In vitro* fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. 263

LATGÉ C. *see* VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

LECHENE DE LA PORTE Paulette *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette. TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

LEE-FINGLAS W. *see* GEE J.M., LEE-FINGLAS W. & JOHNSON I.T. Fermentable carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. 757

LE FLOC'H N., OBLED C. & SÈVE B. *In vivo* threonine oxidation in growing pigs fed on diets with graded levels of threonine. 825

LEIBHOLZ J. *see* WANG Yao H., LEIBHOLZ J., BRYDEN W.L. & FRASER D.R. Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. 81

LEMMENS A.G. *see* WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

LIN Bi-Fong, HUANG Chao-Chi, CHIANG Bor-Luen & JENG Su-Jen Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. 711

LIVESEY G. *see* TETENS Inge, LIVESEY G. & EGGUM B.O. Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. 461

LOBLEY G.E., CONNELL A. & REVELL D. The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. 47

LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

LOPES J. *see* TESSERAUD S., PERESSON R., LOPES J. & CHAGNEAU A.M. Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. 853

LORY S. *see* FONTAINE N., MESLIN J.C., LORY S. & ANDRIEUX C. Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. 881

LUNDIN Eva *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

LUO Jing *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

LUTEN J. *see* VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

MABEAU Serge *see* MICHEL Catherine, LAHAYE Marc, BONNET Christian, MABEAU Serge & BARRY Jean-Luc *In vitro* fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. 263

MACKENZIE Jill *see* DAVIDSSON Lena, MACKENZIE Jill, KASTENMAYER Peter, AGGETT Peter J. & HURRELL Richard F. Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. 291

MCKERR George *see* TONG K.K., HANNIGAN Bernadette M., MCKERR George & STRAIN John J. The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. 97

MCMURTRY J.P. *see* ROSEBROUGH R.W., MITCHELL A.D. & MCMURTRY J.P. Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. 573

MAK Rosa P. *see* BRONSTEIN Michele N., MAK Rosa P. & KING Janet C. Unexpected relationship between fat mass and basal metabolic rate in pregnant women. 659

MALEßA Rolf *see* HENGGE Ulrich R., BAUMANN Mathius, MALEßA Rolf, BROCKMEYER Norbert H. & GOOS Manfred Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. 129

MALLI Lina *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

MARX J.J.M. *see* WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

MATHIESEN Svein Disch *see* OLSEN Monica Alterskjær & MATHIESEN Svein Disch Production rates of volatile fatty acids in the minke whale (*Balaenoptera acutorostrata*) forestomach. 21

MATHIEU Y., CASELLI C., BERNARD A. & CARLIER H. Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. 249

MAZUR Andrzej *see* MOTTA Claude, GUEUX Elyett, MAZUR Andrzej & RAYSSIGUIER Yves Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. 767

MENARD Chantale R. *see* CHEN Zhen-Yu, MENARD Chantale R. & CUNNANE Stephen C. Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. 583

MESLIN J.C. *see* FONTAINE N., MESLIN J.C., LORY S. & ANDRIEUX C. Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. 881

MICHEL Catherine, LAHAYE Marc, BONNET Christian, MABEAU Serge & BARRY Jean-Luc *In vitro* fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. 263

MILLS C.R. *see* SUSMEL P., STEFANON B., SPANGHERO M. & MILLS C.R. Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. 521

MILMAN Nils *see* HEITMANN Berit Lilienthal, MILMAN Nils & HANSEN Gitte Laub Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. 905

MITCHELL A.D. *see* ROSEBROUGH R.W., MITCHELL A.D. & MCMURTRY J.P. Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. 573

MIYATAKE Kazutaka *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

MNILK Beatrix, HARRIS C. Ian & FULLER Malcolm F. Lysine utilization by growing pigs: simultaneous measurement of protein accretion and lysine oxidation. 57

MOTTA Claude, GUEUX Elyett, MAZUR Andrzej & RAYSSIGUIER Yves Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. 767

MOUGHAN P.J. *see* YU Feng, MOUGHAN P.J. & BARRY T.N. The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. 683

MOYNIHAN Paula, ADAMSON Ashley, RUGG-GUNN Andrew, APPLETON David & BUTLER Timothy Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. 495

MURGATROYD P.R., VAN DE VEN M.L.H.M., GOLDBERG G.R. & PRENTICE A.M. Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. 33

MUSKIET Frits A.J. *see* VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

NAIN C.K. *see* CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

NAKANO Yoshihisa *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

NATHAN Indira, HACKETT Allan F. & KIRBY Simon The dietary intake of a group of vegetarian children aged 7–11 years compared with matched omnivores. 533

NICOLAIDIS Stylianos *see* FROMENTIN Gilles & NICOLAIDIS Stylianos Rebalancing essential amino acids intake by self-selection in the rat. 669

NIELSEN J.B. *see* BAGGER M., ANDERSEN O., NIELSEN J.B. & RYTTIG K.R. Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. 483

NOGUCHI Tadashi *see* HIGASHI Yusuke, TAKENAKA Asako, TAKAHASHI Shin-Ichiro & NOGUCHI Tadashi Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. 811

OBLED C. *see* LE FLOC'H N., OBLED C. & SÈVE B. *In vivo* threonine oxidation in growing pigs fed on diets with graded levels of threonine. 825

OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

OHTSUKI Masako *see* OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

OJA Pekka *see* FOGELHOLM G. Mikael, KUKKONEN-HARJULA T. Katriina, SIEVÄNEN Harri T., OJA Pekka & VUORI Ilkka M. Body composition assessment in lean and normal-weight young women. 793

OLSEN Monica Alterskjær & MATHIESEN Svein Disch Production rates of volatile fatty acids in the minke whale (*Balaenoptera acutorostrata*) forestomach. 21

ØRSKOV E.R. *see* CHEN X.B., SAMARAWEERA L., KYLE D.J., ØRSKOV E.R. & ABEYGUNAWARDENE H. Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. 397

O'SULLIVAN K.R. *see* RUXTON C.H.S., O'SULLIVAN K.R., KIRK T.R. & BELTON N.R. The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. 419

OWEN Robert W. *see* DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

PADILHA J.C.F. *see* GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. 195

PADILHA J.C.F. *see* GERAERT P.A., PADILHA J.C.F. & GUILLAUMIN S. Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. 205

PAULI Anne-Marie *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

PAULINO-RACINE L.E. *see* HA C.-L., PAULINO-RACINE L.E. & WOODWARD B.D. Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. 445

PAXTON P. *see* FULLER N.J., SAWYER M.B., COWARD W.A., PAXTON P. & ELIA M. Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. 161

PAYNE Philip R. *see* HENRY Christiani Jeyakumar, GHUSAIN-CHOUEIRI Amal & PAYNE Philip R. Protein utilization, growth and survival in essential-fatty-acid-deficient rats. 237

PERESSON R. *see* TESSERAUD S., PERESSON R., LOPES J. & CHAGNEAU A.M. Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. 853

PEREZ J.F., BALCELLS J., GUADA J.A. & CASTRILLO C. Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. 699

PEZACKA Ewa H. *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

PIERZYNOWSKI S.G. *see* PUCHAŁA R., PIERZYNOWSKI S.G., SAHLU T. & HART S.P. Effects of mimosine administered to a perfused area of skin in Angora goats. 69

POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

POPOT Françoise *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

PORTUGAL Henri *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

POWERS H.J. *see* WILLIAMS E.A., RUMSEY R.D.E. & POWERS H.J. Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. 315

PRENTICE A.M. *see* MURGATROYD P.R., VAN DE VEN M.L.H.M., GOLDBERG G.R. & PRENTICE A.M. Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. 33

PUCHAŁA R., PIERZYNOWSKI S.G., SAHLU T. & HART S.P. Effects of mimosine administered to a perfused area of skin in Angora goats. 69

RADER Jeanne I. *see* SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

RAJOTTE R.V. *see* TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

RAVINDRAN V. *see* KORNEGAY E. T., DENBOW D.M., YI Z. & RAVINDRAN V. Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. 839

RAYSSIGUIER Yves *see* MOTTA Claude, GUEUX Elyett, MAZUR Andrzej & RAYSSIGUIER Yves Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. 767

RÉMÉSY Christian *see* YOUNES Hassan, DEMIGNÉ Christian & RÉMÉSY Christian Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. 301

RÉRAT A., CALMES R., CORRING T. & VAISSADE P. Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. 175

REVELL D. *see* LOBLEY G.E., CONNELL A. & REVELL D. The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. 47

REVELL D.K. *see* LOBLEY G.E., CONNELL A., REVELL D.K., BEQUETTE B.J., BROWN D.S. & CALDER A.G. Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. 217

RIZKALLA Salwa W. *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

ROODENBURG Annet J.C., WEST Clive E., HOVENIER Robert & BEYNEN Anton C. Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. 623

ROSEBROUGH R.W., MITCHELL A.D. & MCMURTRY J.P. Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. 573

RUGG-GUNN Andrew *see* MOYNIHAN Paula, ADAMSON Ashley, RUGG-GUNN Andrew, APPLETON David & BUTLER Timothy Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. 495

RUMSEY R.D.E. *see* WILLIAMS E.A., RUMSEY R.D.E. & POWERS H.J. Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. 315

RUXTON C.H.S., KIRK T.R. & BELTON N.R. Energy and nutrient intakes in a sample of 136 Edinburgh 7–8 year olds: a comparison with United Kingdom dietary reference values. 151

RUXTON C.H.S., O'SULLIVAN K.R., KIRK T.R. & BELTON N.R. The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. 419

RYTTIG K.R. *see* BAGGER M., ANDERSEN O., NIELSEN J.B. & RYTTIG K.R. Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. 483

SAHLU T. *see* PUCHAŁA R., PIERZYNOWSKI S.G., SAHLU T. & HART S.P. Effects of mimosine administered to a perfused area of skin in Angora goats. 69

SAIDO Hisako *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

SALEH Alejandro E.C. *see* VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

SAMARAWEERA L. *see* CHEN X.B., SAMARAWEERA L., KYLE D.J., ØRSKOV E.R. & ABEYGUNAWARDENE H. Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. 397

SAMBROOK Ian E. *see* DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

SANDSTRÖM Brittmarie *see* JOHANSEN Helle N., BACH KNUDSEN K.E., SANDSTRÖM Brittmarie & SKJØTH F. Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. 339

SANDSTRÖM Brittmarie *see* DAVIDSSON Lena, ALMGREN Annette, SANDSTRÖM Brittmarie, JUILLERAT Marcel-A. & HURRELL Richard F. Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. 607

SAWYER M.B. *see* FULLER N.J., SAWYER M.B., COWARD W.A., PAXTON P. & ELIA M. Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. 161

SCHAAFSMA G. *see* VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

SCOTT K. John, THURNHAM David I., HART David J., BINGHAM Sheila A. & DAY Ken The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. 409

SÈVE B. *see* LE FLOC'H N., OBLED C. & SÈVE B. *In vivo* threonine oxidation in growing pigs fed on diets with graded levels of threonine. 825

SIEVÄNEN Harri T. *see* FOGELHOLM G. Mikael, KUKKONEN-HARJULA T. Katriina, SIEVÄNEN Harri T., OJA Pekka & VUORI Ilkka M. Body composition assessment in lean and normal-weight young women. 793

SIKKENS Peter *see* VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

SJÖSTRÖM Rolf *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

SKJØTH F. *see* JOHANSEN Helle N., BACH KNUDSEN K.E., SANDSTRÖM Brittmarie & SKJØTH F. Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. 339

SLAMA Gérard *see* LERER-METZGER Muriel, RIZKALLA Salwa W., LUO Jing, CHAMP Martine, KABIR Morvarid, BRUZZO Françoise, BORNET Francis & SLAMA Gérard Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. 723

SPANGHERO M. *see* SUSMEL P., STEFANON B., SPANGHERO M. & MILLS C.R. Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. 521

STEFANON B. *see* SUSMEL P., STEFANON B., SPANGHERO M. & MILLS C.R. Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. 521

STRAIN John J. *see* TONG K.K., HANNIGAN Bernadette M., MCKERR George & STRAIN John J. The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. 97

SUH Miyoung *see* TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

SUSMEL P., STEFANON B., SPANGHERO M. & MILLS C.R. Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. 521

SZYLIT Odette *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

TAGLIABUE Anna, CENA Hellas & DEURENBERG Paul Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. 11

TAGUCHI Adusa *see* OHTA Atsutane, BABA Seigo, OHTSUKI Masako, TAGUCHI Adusa, ADACHI Takashi & HARA Hiroshi Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. 775

TAKAHASHI Shin-Ichiro *see* HIGASHI Yusuke, TAKENAKA Asako, TAKAHASHI Shin-Ichiro & NOGUCHI Tadashi Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. 811

TAKENAKA Asako *see* HIGASHI Yusuke, TAKENAKA Asako, TAKAHASHI Shin-Ichiro & NOGUCHI Tadashi Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. 811

TESSERAUD S., PERESSON R., LOPES J. & CHAGNEAU A.M. Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. 853

TETENS Inge, LIVESEY G. & EGGUM B.O. Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. 461

THIJSSEN H.H.W. & DRITTIJ-REIJNDERS M.J. Vitamin K status in human tissues: tissue-specific accumulation of phylloquinone and menaquinone-4. 121

THURNHAM David I. *see* SCOTT K. John, THURNHAM David I., HART David J., BINGHAM Sheila A. & DAY Ken The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. 409

TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

TIJBURG Lilian B.M. *see* BRINK Elizabeth J., HADDEMAN Edward & TIJBURG Lilian B.M. Vitamin E incorporated into a very-low-fat meal is absorbed from the intestine of young rats. 939

TONG K.K., HANNIGAN Bernadette M., MCKERR George & STRAIN John J. The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. 97

TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

TSIN A.T.C. *see* TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

TUCHWEBER Beatriz *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

VAHL H.A. *see* ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: development of an experimental infection model. 867

VAHL H.A. *see* ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: diet compositions that improve fat digestion during *Eimeria acervulina* infection. 875

VAISSADE P. *see* RÉRAT A., CALMES R., CORRING T. & VAISSADE P. Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. 175

VAISSADE Pierre *see* LHOSTE Evelyne F., CATALA Isabelle, FISZLEWICZ Michèle, GUEUGNEAU A.M., POPOT Françoise, VAISSADE Pierre, CORRING Tristan & SZYLIT Odette Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. 433

VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

VAN DER MEER R. *see* WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

VAN DE VEN M.L.H.M. *see* MURGATROYD P.R., VAN DE VEN M.L.H.M., GOLDBERG G.R. & PRENTICE A.M. Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. 33

VAN DOKKUM W., DE LA GUÉRONNIÈRE V., SCHAAFSMA G., BOULEY C., LUTEN J. & LATGÉ C. Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. 893

VAN DOORMAAL Jasper J. *see* VAN DER KLIS Fiona R.M., JONXIS Jan H.P., VAN DOORMAAL Jasper J., SIKKENS Peter, SALEH Alejandro E.C. & MUSKIET Frits A.J. Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. 637

VEENSTRA Jan *see* ENGLYST Hans N., VEENSTRA Jan & HUDSON Geoffrey J. Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. 327

VELDMAN A. *see* ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: development of an experimental infection model. 867

VELDMAN A. *see* ADAMS C., VAHL H.A. & VELDMAN A. Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: diet compositions that improve fat digestion during *Eimeria acervulina* infection. 875

VUORI Ilkka M. *see* FOGELHOLM G. Mikael, KUKKONEN-HARJULA T. Katriina, SIEVÄNEN Harri T., OJA Pekka & VUORI Ilkka M. Body composition assessment in lean and normal-weight young women. 793

WALIA B.N.S. *see* CHOWDHURY Swapan, KUMAR Rajesh, GANGULY N.K., KUMAR Lata, NAIN C.K. & WALIA B.N.S. Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. 785

WALKER Ann F. *see* DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

WANG Yao H., LEIBHOLZ J., BRYDEN W.L. & FRASER D.R. Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. 81

WATANABE Fumio *see* TOYOSHIMA Shigeki, WATANABE Fumio, SAIDO Hisako, PEZACKA Ewa H., JACOBSEN Donald W., MIYATAKE Kazutaka & NAKANO Yoshihisa Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. 929

WELCH Vernon A. *see* DABAI Fatima D., WALKER Ann F., SAMBROOK Ian E., WELCH Vernon A., OWEN Robert W. & ABEYASEKERA Savitri Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. 557

WEST Clive E. *see* ROODENBURG Annet J.C., WEST Clive E., HOVENIER Robert & BEYNEN Anton C. Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. 623

WEST Hilary J. Maternal undernutrition during late pregnancy in sheep. Its relationship to maternal condition, gestation length, hepatic physiology and glucose metabolism. 593

WESTSTRATE Jan A. *see* COTTON Jacqui R., BURLEY Victoria J., WESTSTRATE Jan A. & BLUNDELL John E. Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. 545

WIENK K.J.H., MARX J.J.M., LEMMENS A.G., BRINK E.J., VAN DER MEER R. & BEYNEN A.C. Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. 109

WIESENFELD Paddy W. *see* SUNDARESAN P.R., KAUP Susan M., WIESENFELD Paddy W., CHIRTEL Stuart J., HIGHT Susan C. & RADER Jeanne I. Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. 915

WILLIAMS E.A., RUMSEY R.D.E. & POWERS H.J. Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. 315

WING Kenneth *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

WOODWARD B.D. *see* HA C.-L., PAULINO-RACINE L.E. & WOODWARD B.D. Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. 445

YI Z. *see* KORNEGAY E. T., DENBOW D.M., YI Z. & RAVINDRAN V. Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. 839

YOUNES Hassan, DEMIGNÉ Christian & RÉMÉSY Christian Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. 301

YOUSEF Ibrahim *see* POLICHETTI Elisabeth, DIACONESCU Nicolas, LECHENE DE LA PORTE Paulette, MALLI Lina, PORTUGAL Henri, PAULI Anne-Marie, LAFONT Huguette, TUCHWEBER Beatriz, YOUSEF Ibrahim & CHANUSSOT Françoise Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. 471

YU Feng, MOUGHAN P.J. & BARRY T.N. The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. 683

ZHANG Jie-Xian *see* TIDEHAG Per, HALLMANS Göran, WING Kenneth, SJÖSTRÖM Rolf, ÅGREN Göan, LUNDIN Eva & ZHANG Jie-Xian A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). 281

ZHAO Xin-Quan *see* JØRGENSEN Henry, ZHAO Xin-Quan & EGGUM Bjørn O. The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. 365

ZHAO Xin-Quan *see* JØRGENSEN Henry, ZHAO Xin-Quan, BACH KNUDSEN Knud Erik & EGGUM Bjørn O. The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. 379

ZIARI S. *see* TUITOEK P.J., ZIARI S., TSIN A.T.C., RAJOTTE R.V., SUH Miyoung & BASU Tapan K. Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). 615

Index of Subjects

Acylglycerol acyltransferase
Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. **75**, 249, 1996

Adipose tissue
Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. **75**, 723, 1996

Adolescents
Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. **75**, 495, 1996

Alcohol
Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. **75**, 33, 1996

Amino acids
Lysine utilization by growing pigs: simultaneous measurement of protein accretion and lysine oxidation. **75**, 57, 1996
Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. **75**, 175, 1996
Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. **75**, 217, 1996

Antioxidants
The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. **75**, 97, 1996

Appetite
Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. **75**, 545, 1996

Autoimmunity
Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. **75**, 711, 1996

Bacteria
Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. **75**, 881, 1996

Basal metabolic rate
Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. **75**, 161, 1996
Unexpected relationship between fat mass and basal metabolic rate in pregnant women. **75**, 659, 1996

Bile
Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. **75**, 249, 1996
Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. **75**, 471, 1996

Bioavailability
Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. **75**, 893, 1996

Bioimpedance
Body composition assessment in lean and normal-weight young women. **75**, 793, 1996

Blood pressure
Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. **75**, 483, 1996

Body composition
Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. **75**, 11, 1996
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. **75**, 195, 1996
Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. **75**, 649, 1996
Unexpected relationship between fat mass and basal metabolic rate in pregnant women. **75**, 659, 1996
Body composition assessment in lean and normal-weight young women. **75**, 793, 1996
Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. **75**, 803, 1996

Body fat
Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. **75**, 803, 1996

Bone
Body composition assessment in lean and normal-weight young women. **75**, 793, 1996
Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. **75**, 811, 1996

Breakfast
The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. **75**, 419, 1996

Brown algae
In vitro fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. **75**, 263, 1996
Cachexia
Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. **75**, 129, 1996
Caecal fermentation
Consequences of reduced fibre intake on digestion, rate of passage and caecal microbial activity in the young rabbit. **75**, 353, 1996
Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. **75**, 433, 1996
Caecum
Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. **75**, 301, 1996
Calcium
Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. **75**, 109, 1996
Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. **75**, 291, 1996
Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. **75**, 301, 1996
Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. **75**, 495, 1996
Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. **75**, 775, 1996
Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. **75**, 893, 1996
Carotenoids
The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. **75**, 409, 1996
$CD5^+$ B cells
Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. **75**, 711, 1996
Cholecalciferol
Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. **75**, 637, 1996
Cholesterol
Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. **75**, 471, 1996
Chronic heat exposure
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. **75**, 195, 1996
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. **75**, 205, 1996
Chyloportal partition
Partition of oleic acid between the lymph and portal blood in rats having a diverted bile–pancreatic duct. **75**, 249, 1996
Coccidiosis
Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: development of an experimental infection model. **75**, 867, 1996
Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: diet compositions that improve fat digestion during *Eimeria acervulina* infection. **75**, 875, 1996
Colon
Fermentabie carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. **75**, 757, 1996
Condensed tannin
The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. **75**, 683, 1996
Conditioned taste aversion
Rebalancing essential amino acids intake by self-selection in the rat. **75**, 669, 1996
Conjunctival impression cytology with transfer
Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. **75**, 785, 1996
Copper
The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. **75**, 97, 1996
Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. **75**, 767, 1996
Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. **75**, 915, 1996
Coprophagy
Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. **75**, 775, 1996
Cottonseed
The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. **75**, 683, 1996
Cytochrome c oxidase
The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. **75**, 97, 1996
Cytokines
Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. **75**, 711, 1996
Cytokinetics
Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. **75**, 315, 1996

Densitometry
Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. **75**, 649, 1996

Deuterium oxide dilution
Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. **75**, 649, 1996

Diabetes
Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). **75**, 615, 1996
Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. **75**, 723, 1996

Diet reporting error
Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. **75**, 905, 1996

Dietary choice
Rebalancing essential amino acids intake by self-selection in the rat. **75**, 669, 1996

Dietary fibre
In vitro fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. **75**, 263, 1996
Consequences of reduced fibre intake on digestion, rate of passage and caecal microbial activity in the young rabbit. **75**, 353, 1996
Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. **75**, 461, 1996
Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. **75**, 483, 1996

Dietary intake
Energy and nutrient intakes in a sample of 136 Edinburgh 7–8 year olds: a comparison with United Kingdom dietary reference values. **75**, 151, 1996
The dietary intake of a group of vegetarian children aged 7–11 years compared with matched omnivores. **75**, 533, 1996

Dietary protein
Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. **75**, 573, 1996

Dual-energy X-ray absorptiometry
Measurement of body fat in young and elderly women: comparison between a four-compartment model and widely used reference methods. **75**, 649, 1996
Body composition assessment in lean and normal-weight young women. **75**, 793, 1996
Dual-energy X-ray absorptiometry for the measurement of gross body composition in rats. **75**, 803, 1996

Editorial
A time of change at the *British Journal of Nutrition*. **75**, 1, 1996

Endocrinological changes
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. **75**, 205, 1996

Energy retention
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. **75**, 195, 1996

Enteral product
Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. **75**, 893, 1996

Enteroglucagon
Fermentable carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. **75**, 757, 1996

Essential fatty acids deficiency
Protein utilization, growth and survival in essential-fatty-acid-deficient rats. **75**, 237, 1996

Faecal bacteria
In vitro fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. **75**, 263, 1996

Faecal output
Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. **75**, 521, 1996

Famine
Adult malnutrition: simple assessment techniques for use in emergencies. **75**, 3, 1996

Fasting
Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. **75**, 583, 1996

Fat digestion
Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: diet compositions that improve fat digestion during *Eimeria acervulina* infection. **75**, 875, 1996

Fat storage
Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. **75**, 33, 1996

Fermentation
Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. **75**, 301, 1996
The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. **75**, 365, 1996
The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. **75**, 379, 1996
Digestion and physiological properties of resistant starch in the human large bowel. **75**, 733, 1996

Forestomach
Production rates of volatile fatty acids in the minke whale (*Balaenoptera acutorostrata*) forestomach. **75**, 21, 1996

Fortification
Dietary sources of calcium and the contribution of flour fortification to total calcium intake in the diets of Northumbrian adolescents. **75**, 495, 1996
Fresh cheese
Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. **75**, 893, 1996
Fructo-oligosaccharides
Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. **75**, 775, 1996
Gastric emptying
Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. **75**, 339, 1996
Gastrin
Fermentable carbohydrate modulates postprandial enteroglucagon and gastrin release in rats. **75**, 757, 1996
Germ-free rat
Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. **75**, 433, 1996
β-Glucan
Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. **75**, 339, 1996
Glucose absorption
Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. **75**, 175, 1996
Glycaemic index
Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. **75**, 723, 1996
Glycaemic response
Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. **75**, 327, 1996
Growth
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: growth performance, body composition and energy retention. **75**, 195, 1996
Gutfill
The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. **75**, 365, 1996
The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. **75**, 379, 1996
Heat increment
The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. **75**, 365, 1996
The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. **75**, 379, 1996
History
Honey revisited: a reappraisal of honey in preindustrial diets. **75**, 513, 1996
Honey
Honey revisited: a reappraisal of honey in preindustrial diets. **75**, 513, 1996
Human immunodeficiency virus
Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. **75**, 129, 1996
Hypocholesterolaemic effect
Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. **75**, 557, 1996
IgA
Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. **75**, 445, 1996
Ileal digestibility
The effect of cottonseed condensed tannins on the ileal digestibility of amino acids in casein and cottonseed kernel. **75**, 683, 1996
Ileostomy
A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). **75**, 281, 1996
Measurement of resistant starch *in vitro* and *in vivo*. **75**, 749, 1996
Immune response
The effects of copper deficiency on human lymphoid and myeloid cells: an *in vitro* model. **75**, 97, 1996
Immunoglobulin
Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. **75**, 445, 1996
***In vitro* fermentation**
In vitro fermentation by human faecal bacteria of total and purified dietary fibres from brown seaweeds. **75**, 263, 1996
Infection model
Interaction between nutrition and *Eimeria acervulina* infection in broiler chickens: development of an experimental infection model. **75**, 867, 1996
Insulin secretion
Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. **75**, 175, 1996
Insulin-like growth factor
Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. **75**, 811, 1996
Intestine
Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in

a weanling murine model which duplicates critical features of human protein–energy malnutrition. **75**, 445, 1996

Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. **75**, 881, 1996

Inulin

Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. **75**, 881, 1996

Iron

A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). **75**, 281, 1996

Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. **75**, 623, 1996

Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. **75**, 905, 1996

Ketosis

Maternal undernutrition during late pregnancy in sheep. Its relationship to maternal condition, gestation length, hepatic physiology and glucose metabolism. **75**, 593, 1996

Lactation

Protein utilization, growth and survival in essential-fatty-acid-deficient rats. **75**, 237, 1996

Large bowel

Digestion and physiological properties of resistant starch in the human large bowel. **75**, 733, 1996

Legumes

Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. **75**, 557, 1996

Letters to the Editors

Amino acid partitioning and milk protein synthesis. **75**, 139, 1996

Danger in the interpretation of polyester-bag method parameters fitted by computer software. **75**, 140, 1996

Consequences of model choice when analysing polyester bag data. **75**, 142, 1996

Is proteolysis in the rumen of grazing animals mediated by plant enzymes? **75**, 507, 1996

Multi-frequency impedance technique. **75**, 508, 1996

Multi-frequency impedance technique – reply **75**, 509, 1996

Linoleate

Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. **75**, 583, 1996

α-Linolenate

Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. **75**, 583, 1996

Lipid fluidity

Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. **75**, 767, 1996

Lipid metabolism

Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. **75**, 557, 1996

Lipid peroxidation

Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. **75**, 81, 1996

Lipogenesis

Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. **75**, 573, 1996

Lipoproteins

Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. **75**, 767, 1996

Liver

Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. **75**, 217, 1996

Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. **75**, 471, 1996

Maternal undernutrition during late pregnancy in sheep. Its relationship to maternal condition, gestation length, hepatic physiology and glucose metabolism. **75**, 593, 1996

Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. **75**, 929, 1996

Low-fat products

Vitamin E incorporated into a very-low-fat meal is absorbed from the intestine of young rats. **75**, 939, 1996

Lysine

Lysine utilization by growing pigs: simultaneous measurement of protein accretion and lysine oxidation. **75**, 57, 1996

Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. **75**, 853, 1996

Magnesium

Prevention of coprophagy modifies magnesium absorption in rats fed with fructo-oligosaccharides. **75**, 775, 1996

Malnutrition

Adult malnutrition: simple assessment techniques for use in emergencies. **75**, 3, 1996

Mathematical models

Ability of mathematical models to predict faecal output with a pulse dose of indigestible marker. **75**, 521, 1996

Menaquinone

Vitamin K status in human tissues: tissue-specific accumulation of phylloquinone and menaquinone-4. **75**, 121, 1996

Metabolic rate

Protein utilization, growth and survival in essential-fatty-acid-deficient rats. **75**, 237, 1996

Methionine

The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. **75**, 47, 1996

Methylation
The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. **75**, 47, 1996

Methylmalonic acid
Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. **75**, 929, 1996

Microbial synthesis
Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. **75**, 699, 1996

Mid upper arm circumference
Adult malnutrition: simple assessment techniques for use in emergencies. **75**, 3, 1996

Mimosine
Effects of mimosine administered to a perfused area of skin in Angora goats. **75**, 69, 1996

Mineral water
Bioavailability of calcium of fresh cheeses, enteral food and mineral water. A study with stable calcium isotopes in young adult women. **75**, 893, 1996

Minke whale
Production rates of volatile fatty acids in the minke whale (*Balaenoptera acutorostrata*) forestomach. **75**, 21, 1996

Mucins
Intestinal mucin distribution in the germ-free rat and in the heteroxenic rat harbouring a human bacterial flora: effect of inulin in the diet. **75**, 881, 1996

Multi-frequency bioimpedance
Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. **75**, 11, 1996

Multi-level assessment instrument
Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. **75**, 161, 1996

Nitrogen excretion
Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. **75**, 461, 1996

Nitrogen retention
Effects of the type and level of dietary fibre supplements on nitrogen retention and excretion patterns. **75**, 461, 1996

Non-haem-iron
Mechanisms underlying the inhibitory effect of high calcium carbonate intake on iron bioavailability from ferrous sulphate in anaemic rats. **75**, 109, 1996
A comparison of iron absorption from single meals and daily diets using radioFe (^{55}Fe, ^{59}Fe). **75**, 281, 1996

Non-starch polysaccharides
The influence of dietary fibre and environmental temperature on the development of the gastrointestinal tract, digestibility, degree of fermentation in the hind-gut and energy metabolism in pigs. **75**, 365, 1996
The influence of dietary fibre source and level on the development of the gastrointestinal tract, digestibility and energy metabolism in broiler chickens. **75**, 379, 1996

Nutrient intake
The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. **75**, 419, 1996

Nutrient interactions
Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. **75**, 915, 1996

Oats
Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. **75**, 339, 1996

Osteoporosis
Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. **75**, 637, 1996
Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. **75**, 811, 1996

Ovariectomy
Effect of protein restriction on the messenger RNA contents of bone-matrix proteins, insulin-like growth factors and insulin-like growth factor binding proteins in femur of ovariectomized rats. **75**, 811, 1996

β-Oxidation
Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. **75**, 583, 1996

Oxidation
In vivo threonine oxidation in growing pigs fed on diets with graded levels of threonine. **75**, 825, 1996

Oxymetholone
Oxymetholone promotes weight gain in patients with advanced human immunodeficiency virus (HIV-1) infection. **75**, 129, 1996

Pancreas
Kinetics of amino acid and glucose absorption following pancreatic diversion in the pig. **75**, 175, 1996
Influence of caecal microflora and of two dietary protein levels on the adaptation of the exocrine pancreas: comparative study in germ-free and conventional rats. **75**, 433, 1996

Parathyroid hormone
Changes in vitamin-D metabolites and parathyroid hormone in plasma following cholecalciferol administration to pre- and postmenopausal women in the Netherlands in early spring and to postmenopausal women in Curaçao. **75**, 637, 1996

Peroxidation
Lipid fluidity of triacylglycerol-rich lipoproteins isolated from copper-deficient rats. **75**, 767, 1996

Phosphorus
Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. **75**, 839, 1996
Phylloquinone
Vitamin K status in human tissues: tissue-specific accumulation of phylloquinone and menaquinone-4. **75**, 121, 1996
Physical activity levels
Components of total energy expenditure in free-living elderly men (over 75 years of age): measurement, predictability and relationship to quality-of-life indices. **75**, 161, 1996
Phytase
Response of broilers to graded levels of microbial phytase added to maize–soyabean-meal-based diets containing three levels of non-phytate phosphorus. **75**, 839, 1996
Plant foods
Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. **75**, 327, 1996
Plasma concentrations
The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. **75**, 409, 1996
Plasma metabolites
Metabolic and endocrine changes induced by chronic heat exposure in broiler chickens: biological and endocrinological variables. **75**, 205, 1996
Platelet aggregation
Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. **75**, 483, 1996
Preference
Rebalancing essential amino acids intake by self-selection in the rat. **75**, 669, 1996
Pregnancy
Protein utilization, growth and survival in essential-fatty-acid-deficient rats. **75**, 237, 1996
Maternal undernutrition during late pregnancy in sheep. Its relationship to maternal condition, gestation length, hepatic physiology and glucose metabolism. **75**, 593, 1996
Unexpected relationship between fat mass and basal metabolic rate in pregnant women. **75**, 659, 1996
Prostaglandins
Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. **75**, 711, 1996
Protein
Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. **75**, 607, 1996
Protein metabolism
Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. **75**, 217, 1996
Protein turnover
Dietary lysine deficiency greatly affects muscle and liver protein turnover in growing chickens. **75**, 853, 1996
Protein utilization
Protein utilization, growth and survival in essential-fatty-acid-deficient rats. **75**, 237, 1996
Protein–energy malnutrition
Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. **75**, 445, 1996
Purine derivatives
Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. **75**, 397, 1996
Purine excretion
Determination of rumen microbial-nitrogen production in sheep: a comparison of urinary purine excretion with methods using ^{15}N and purine bases as markers of microbial-nitrogen entering the duodenum. **75**, 699, 1996
Radioisotope
Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. **75**, 607, 1996
Rapidly available glucose
Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. **75**, 327, 1996
Refeeding
Accumulation of polyunsaturates is decreased by weight-cycling: whole-body analysis in young, growing rats. **75**, 583, 1996
Resistant starch
Acidic fermentation in the caecum increases absorption of calcium and magnesium in the large intestine of the rat. **75**, 301, 1996
Digestion and physiological properties of resistant starch in the human large bowel. **75**, 733, 1996
Measurement of resistant starch *in vitro* and *in vivo*. **75**, 749, 1996
Retinol
Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. **75**, 785, 1996
Riboflavin
Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. **75**, 315, 1996
Satiety
Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. **75**, 545, 1996
Schoolchildren
Energy and nutrient intakes in a sample of 136 Edinburgh 7–8 year olds: a comparison with United Kingdom dietary reference values. **75**, 151, 1996
The contribution of breakfast to the diets of a sample of 136 primary-schoolchildren in Edinburgh. **75**, 419, 1996

Seasonal variation in intake
The correlation between the intake of lutein, lycopene and β-carotene from vegetables and fruits, and blood plasma concentrations in a group of women aged 50–65 years in the UK. **75**, 409, 1996

Serum ferritin
Relationship between dietary iron intake, corrected for diet reporting error, and serum ferritin in Danish women aged 35–65 years. **75**, 905, 1996

Serum lipids
Dietary fibres reduce blood pressure, serum total cholesterol and platelet aggregation in rats. **75**, 483, 1996

Short-chain fatty acids
Consequences of reduced fibre intake on digestion, rate of passage and caecal microbial activity in the young rabbit. **75**, 353, 1996

Skin perfusion
Effects of mimosine administered to a perfused area of skin in Angora goats. **75**, 69, 1996

Small intestine
Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. **75**, 315, 1996
Measurement of resistant starch *in vitro* and *in vivo*. **75**, 749, 1996

Soyabean lecithin
Cholesterol-lowering effect of soyabean lecithin in normolipidaemic rats by stimulation of biliary lipid secretion. **75**, 471, 1996

Spleen
Expansion of the humoral effector cell compartment of both systemic and mucosal immune systems in a weanling murine model which duplicates critical features of human protein–energy malnutrition. **75**, 445, 1996

Stable isotopes
The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. **75**, 47, 1996
Splanchnic-bed transfers of amino acids in sheep blood and plasma, as monitored through use of a multiple U-^{13}C-labelled amino acid mixture. **75**, 217, 1996
Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. **75**, 291, 1996

Starch
Measurement of rapidly available glucose (RAG) in plant foods: a potential *in vitro* predictor of the glycaemic response. **75**, 327, 1996
Effects of long-term low-glycaemic index starchy food on plasma glucose and lipid concentrations and adipose tissue cellularity in normal and diabetic rats. **75**, 723, 1996

Steroids
Comparative effects on blood lipids and faecal steroids of five legume species incorporated into a semi-purified, hypercholesterolaemic rat diet. **75**, 557, 1996

Streptozotocin
Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). **75**, 615, 1996

Sucrose polyester
Fat substitution and food intake: effect of replacing fat with sucrose polyester at lunch or evening meals. **75**, 545, 1996

Sugar
Honey revisited: a reappraisal of honey in pre-industrial diets. **75**, 513, 1996

Systemic lupus erythematosus
Dietary fat influences Ia antigen expression, cytokines and prostaglandin E_2 production of immune cells in autoimmune-prone NZB × NZW F1 mice. **75**, 711, 1996

Threonine
In vivo threonine oxidation in growing pigs fed on diets with graded levels of threonine. **75**, 825, 1996

Total body water
Comparative study of the relationship between multi-frequency impedance and body water compartments in two European populations. **75**, 11, 1996

Triiodothyronine
Carry-over effects of dietary crude protein and triiodothyronine (T_3) in broiler chickens. **75**, 573, 1996

Vegetarian children
The dietary intake of a group of vegetarian children aged 7–11 years compared with matched omnivores. **75**, 533, 1996

Villus number
Cytokinetic and structural responses of the rat small intestine to riboflavin depletion. **75**, 315, 1996

Viscosity
Effects of varying content of soluble dietary fibre from wheat flour and oat milling fractions on gastric emptying in pigs. **75**, 339, 1996

Vitamin A
Streptozotocin-induced diabetes in rats is associated with impaired metabolic availability of vitamin A (retinol). **75**, 615, 1996
Supplemental vitamin A enhances the recovery from iron deficiency in rats with chronic vitamin A deficiency. **75**, 623, 1996
Conjunctival impression cytology with transfer (CICT) to detect pre-clinical vitamin A deficiency among slum children in India. **75**, 785, 1996
Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. **75**, 915, 1996

Vitamin B_{12}
Accumulation of methylmalonic acid caused by vitamin B_{12}-deficiency disrupts normal cellular metabolism in rat liver. **75**, 929, 1996

Vitamin E
Lipid peroxidation status as an index to evaluate the influence of dietary fats on vitamin E requirements of young pigs. **75**, 81, 1996
Vitamin E incorporated into a very-low-fat meal is absorbed from the intestine of young rats. **75**, 939, 1996

Vitamin K
Vitamin K status in human tissues: tissue-specific accumulation of phylloquinone and menaquinone-4. **75**, 121, 1996
Volatile fatty acids
Production rates of volatile fatty acids in the minke whale (*Balaenoptera acutorostrata*) forestomach. **75**, 21, 1996
Weaning cereal
Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. **75**, 291, 1996
Whole-body calorimetry
Alcohol and the regulation of energy balance: overnight effects on diet-induced thermogenesis and fuel storage. **75**, 33, 1996
Wool growth
The importance of transmethylation reactions to methionine metabolism in sheep: effects of supplementation with creatine and choline. **75**, 47, 1996
Xanthine oxidase
Urinary excretion of purine derivatives and tissue xanthine oxidase (*EC* 1.2.3.2) activity in buffaloes (*Bubalis bubalis*) with special reference to differences between buffaloes and *Bos taurus* cattle. **75**, 397, 1996
Zinc
Zinc and calcium apparent absorption from an infant cereal: a stable isotope study in healthy infants. **75**, 291, 1996
Zinc absorption in adult humans: the effect of protein sources added to liquid test meals. **75**, 607, 1996
Interactions in indices of vitamin A, zinc and copper status when these nutrients are fed to rats at adequate and increased levels. **75**, 915, 1996